1037-57-298   **Heather M Russell*** (`hrussell@math.uiowa.edu`), University of Iowa, Department of Mathematics, 15 Mac Lean Hall, Iowa City, IA 52242-1419. *The Bar-Natan skein module and (n.n) Springer varieties.*

I will explore the homology and cohomology of Springer fibers from a diagrammatic viewpoint via the Bar-Natan skein module of the solid torus. This will include a discussion of how diagrams correspond to homology and cohomology classes and how the algebra is articulated through diagrammatics. (Received February 04, 2008)